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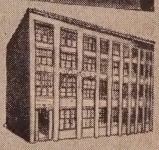
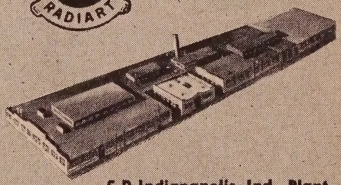


C-D Fuquay Springs Division, N. C.



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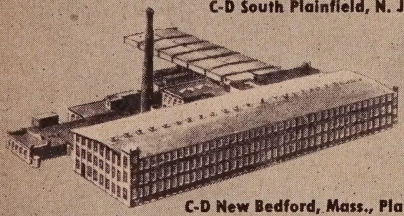

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Vol. 17 JULY, 1952 No. 7

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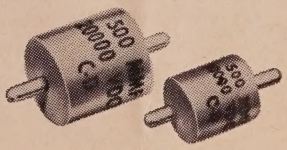

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SAFETY PRECAUTIONS IN USE OF SELENIUM RECTIFIERS

Selenium rectifiers for radio and electronic applications now have been on the market long enough to have come of age chronologically. At this writing, no advertising superlatives are needed to sell these components. The net result of this maturity is the more sober attitude with which the metallic rectifier now is viewed by the profession.

The selenium rectifier has several characteristics which distinguish it for certain applications where tubes formerly were used exclusively. These characteristics include cooler operation, small size, light weight, low voltage drop, high current rating per unit volume of size, absence of warmup time, and 2-terminal simplicity. These features by themselves are sufficient to guarantee the selenium rectifier a position of usefulness. But foremost, instead, in the minds of most experimenters is the fact that this rectifier has become identified with the transformerless type of power supply.

Having no filament, the selenium rectifier lends itself easily to series insertion into the a. c. power line to obtain 100 volts or so of direct current.

For that reason, the simple selenium-type transformerless power supplies have been used with abandon in many pieces of equipment where a transformer would be employed with increased safety and to better advantage. The negative terminal of the typical transformerless power supply is a direct connection to the power line, and this constitutes both an electric shock and fire hazard. It is time now to emphasize to radio and electronic technicians the necessity for observing certain safety precautions in the operation of selenium rectifiers. Nor is the transformerless power supply the only angle. This article will discuss briefly the points we have in mind.

Line-Operated Power Supplies

Miniature power supplies are made possible by the selenium rectifier, whether a simple rectifier circuit or a voltage multiplier is used. The line-operated (transformerless) circuit is the simplest type. But the small size of a high-current selenium rectifier results in some degree of miniaturization **even when a transformer is used.**

This brings us to the point that an isolating transformer should be used whenever possible, since there is no other way of taking the "fire" definitely out of a transformerless power supply. In many applications, it will make very little difference in space if a transformer is included, and the other noteworthy characteristics of the selenium rectifier still will be available.

A standard isolating transformer with a 1-to-1 turns ratio will remove the danger of accidental electric shock when the negative d. c. terminal is common with one side of the a. c. input. It also will remove the fire hazard

and the nuisance of blown house fuses. When economy or space requirements prohibit the use of a regulation-size isolating transformer, a smaller and cheaper transformer may be made in the well-known manner by connecting two filament transformers "back-to-back." (The two low-voltage windings are connected to each other. The power line is connected to one of the 115-volt windings, and the 115-volt output voltage taken from the other.)

When a transformerless power supply **must** be used, there are certain protective measures that can and should be taken: (a) Do not, under any circumstances, connect the chassis, panel, or case of the powered equipment to B-minus (power line). Instead, run the necessary circuit components to B-minus, but connect a 0.1-ufd. 400-volt capacitor between chassis and B-minus. (b) When the chassis must be connected directly to B-minus (as in the case of extended shielding), insulate it from the panel and case. Also, provide insulated shafts for such components as tuning capacitors. (c) It is possible in some instruments that a direct connection is desirable between B-minus (power line) and the chassis, panel, and case. In this instance, polarize the power outlet and plug so that the chassis always will be connected to the **grounded** side of the power line. Take an additional precaution by grounding the equipment separately to a cold water pipe. (d) Provide adequate fusing in the a. c. input leads of the power supply.

There is nothing basically wrong with using a transformerless power supply if it is the best circuit for a particular application. And the selenium rectifier is especially attractive for use in this circuit. However, the transformerless power supply fundamentally is a dangerous arrangement and should be handled as such, lest the selenium rectifier be blamed for its orneriness.

Rectifier Blowouts

When a selenium rectifier burns out, selenium dioxide fumes are liberated. The fumes are responsible for the overpowering stench following the blowout. Selenium dioxide is poisonous, and the fumes should not be breathed. Give a blown rectifier a wide berth! Get the equipment containing it out of doors as quickly as possible and ventilate the room.

Do not handle the damaged rectifier while it still is hot, otherwise some of the selenium compound may be absorbed through a skin burn. Selenium poisoning is no joke. The chances may not be very great that you will be poisoned by this source, but don't even take that slim chance.

While every rectifier may be expected to burn out ultimately, several precautions may be taken to prevent early blowouts and to lessen the accompanying hazard: (a) Connect a fuse of appropriate rating in the d. c. output circuit. Also fuse the a. c. input circuit. These two fuses will isolate the rectifier if it develops an internal short circuit, and thereby prevent its continued "cooking." (b) Use peak limiting resistors in series with each rectifier. The ohmic value of the resistor for a particular size of rectifier is specified in the rectifier manufacturer's tables. Generally speaking, a protective-resistor of approximately 50 ohms for a 100 ma. load and at least 10 ohms for a 250 ma. load will be adequate. The peak limiting resistor prevents the flow of heavy surge currents which might blow the rectifier or damage the filter capacitors. (c) The presence of high ripple and surge currents

normally encountered in selenium rectifier circuits further call for careful selection of associated filter capacitors. The conventional electrolytic capacitor is not adequate for selenium rectifier circuit applications. Etched anode and cathode units, especially engineered to prevent capacitor drop, are required. The line of Cornell-Dubilier type UPE twist-prong electrolytics is such a unit made precisely for use in selenium rectifier circuits. Only such units should be used. (d) Do not mount a selenium rectifier in a hot area of the chassis. Keep the region around the rectifier unobstructed for good circulation of air. Observe closely the operating temperature ratings recommended by the manufacturer. (e) Do not exceed the maximum output current or input voltage specified for the rectifier used. Consult the literature of the manufacturer of the rectifier. (f) If higher input voltages must be used, connect two or more identical rectifiers in series, as required. Radio rectifiers are rated at 120 volts each. In series combinations, however, do not exceed the maximum peak inverse voltage ratings of the individual rectifiers. (g) Do not mount the rectifier under excessive pressure. Note that the rectifier plates are not held too tightly in their stack. (h) In a voltage multiplier circuit (doubler, tripler, quadrupler, etc.), observe carefully the correct polarities of individual rectifiers in the circuit. (i) Keep leads and other components out of contact with rectifiers. (j) Protect rectifiers from bends, scratches, and excessive vibration.

Safe Location of Rectifiers

In the interest of good ventilation, it usually is advisable to mount a selenium rectifier above chassis. Remember however, that the electrodes and elements of a metallic rectifier, unlike the working parts of a vacuum tube, are exposed and constitute an electric shock and short-circuit hazard when the unit is mounted externally in this manner. The paint coating of the rectifier plates must not be depended upon as an insulator. The technician must take care not to contact the exposed plates or terminals of the rectifier either with conductors or with parts of his body while the equipment is in operation.

In installations using open-chassis construction, it will be advisable for safety to enclose the rectifier in a protective shield or cage. But, in order to insure free circulation of air, this cover must be made of metal screen or of perforated sheet metal with large holes. Such a cover is a guarantee against accidental contact.

High-Voltage Rectifiers

Special selenium rectifiers are available for use at high potentials up to several thousand volts. These units offer the same advantages at high voltages that are afforded by conventional selenium units at low voltages. In order to prevent accidental grounding and flashover to adjacent components and mountings, and to minimize the danger of electric shock, these special rectifiers are enclosed in glass or plastic housings. Some are hermetically sealed.

When handling high-voltage rectifiers, all of the usual safety precautions must be observed conscientiously. Keep the leads and terminals well separated from other conductors and components, and locate the rectifier where it will not be accessible easily to operating personnel. Slip an ample length of high-voltage spaghetti sleeving over each of the exposed terminals, and use only high-voltage-insulated wire for connections.

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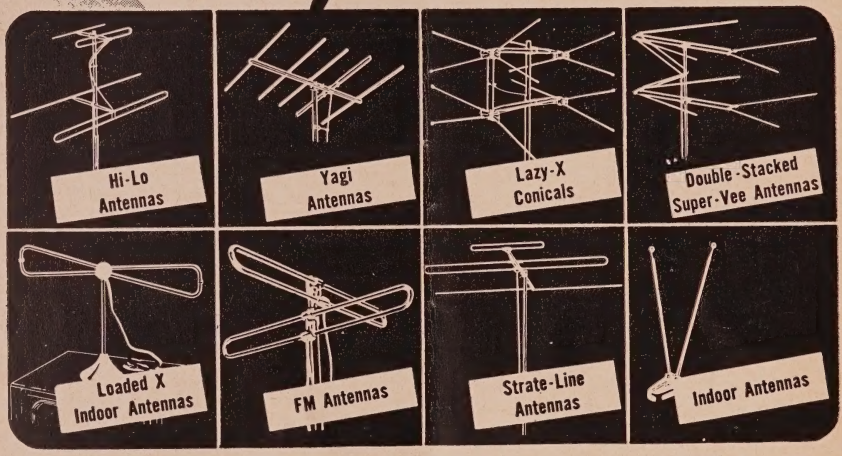

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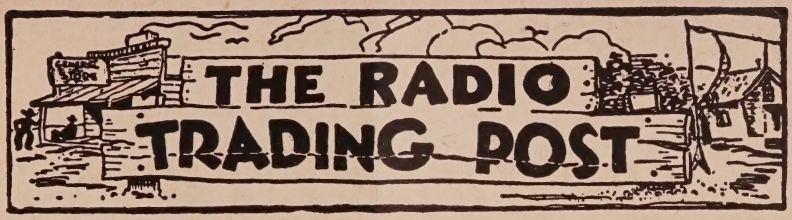

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SWAP—UTC A-10 Hiperm Hi-fi transformer $16 list; UTC HA114 Hi-fi compact audio, $22 list, both ± 2 DB 30 to 20,000 cycles, both good cond. Want Sterrett dial indicator, or B.S. 6" Veniers or other precision machinist tools. W. S. Crooks, Stow, Ohio.

FOR SALE—Motorola 7" TV set, good cond. with expanded screen, blond wood cabinet $25; radios $5 ea. plus shipping charges. Jones Radio Co., Box 93, Douglassville, Pa.

FOR SALE—Western Electric 728B 12" Hi-fi spkr, used only few hours. Will ship postpaid on receipt of $25 M.O. or same amount COD, you pay postage and charges. T. A. Flournoy, Mineola, Tex.

FOR SALE—Large port. play-back amp.; heavy duty 2 speed AC-DC motor, 16" turntable, Jensen speaker in removable cover $20. R. A. Picard, 150 E. 52 St., New York 22, N. Y.

SWAP—Any type amusement machine for den or game room for 10 meter mobile eqpt., Tri-band Gonset, Dynamotor, xmitter, etc., or what have you in ham gear? S. Cokas, c/o Capitol Music, 1 Acorn St., Lynn, Mass.

FOR SALE—Tube tester, Radio City mod. 308 in port. leather case, tester in good cond. Asking $8 plus postage. Harry Chaykun, 1318 Anderson Ave., Trainer, Chester, Pa.

FOR SALE—Webster wire recorder, exc. cond., plus 10 1-hr. spools of Webster recording wire. Best offer. Leon Gold, 1681 49th St., Brooklyn 4, N. Y.

WANTED—MN-31 Bendix inverter and DY-20 dynamotor; Bendix rec. List your spare dynamotors or inverters. Charles L. Neumann, 524 So. Darlington, Tulsa, Okla.

FOR SALE—Underwood no. 4 typewriter. First $30 plus freight gets it. Interested in buying radio parts, what have you? Want 2A7 tubes, others. Walter Bruskiewicz, 1458 N. Ashland Ave., Chicago, Ill.

FOR SALE—GE type H-4 transformer, with diagram, $15 plus postage, like new. Used for S-4 Sunlamp, AH-4 Mercury and BH-4 red ruby lamps. George Neuschafer, P. O. Box 883, Kerrville, Tex.

FOR SALE—Heathkit 0-6 scope, never assembled $30; Presto 0-1 cutting head $50. Phono motors with turntables $2.50. Want good cond. 4 x 5 Speed Graphic with acc. Ed Galovac, 96 Egbert Rd., Bedford, Ohio.

SELL OR TRADE—Precision scope, EV-20, E-400, Wilcox-Gay Recordette 8J10, 7" TV magnifier, GE 250 wet cell port., Webster Chicago Microgroove auto. changer, Emerson fan heater, Underwood no. 5 typewriter, Admiral 2 speed rdo-phono, 7" record. John Pellock, 614 W. North, Decatur, Ill.

FOR SALE—Leica camera, prewar mod. Hektor f2.5 lens $60 or trade for radio-audio eqpt. Walter Dressler, 32-14 Linden St., Wantagh, N. Y.

FOR SALE OR TRADE—Supreme 85PL tube-tester; Franklyn H tubetester; Safeguarde Checkwriter. Want 12½" TV pict. tube, other TV tubes, PA amp. 10W, typewriter. I. W. Stubblebine, 140 S. 4th St., Reading, Pa.

SELL OR SWAP—Airline phono, new crystal, mod. 64BR-917B for a good amp.; RCA FM-AM rec. mod. 8-X-71 $30, with Belden Poly-Point FM antenna, leadin wire and lightning arrester $40. Marvin Beasley, Seale, Ala.

FOR SALE—Feiler tracer stethoscope; Rider Man. 11 to 16; $79.50 Cort man's wrist watch, like new. E. G. Bartlett, Box 86, Atlanta, Mo.

FOR SALE—Mark II transmitter and rec., A-1, covers 80 and 40 meters, phone and CW, also 235 MC tranceiver is built in; can be modified for 2 meters. Phones, mike and control box included $35 FOB. B. G. Whitehill, 54 Poplar Ave., Niles, O.

FOR SALE—National receiver, mod. NC 183, in orig. carton. First reas. offer will be accepted. John R. Waldowski, 5413 Alexander Pl., Oak Lawn, Ill.

FOR SALE—Approx. $2500, Radio & TV shop, tubes, parts, equip., Rider man., 6V./110V. P.A. rentals. Reas. rent, living quarters. Available in May. 5371 Coral Way, Riverside, Calif. or write Bob Boener, 2741 N. 13th St., Phila. 33, Pa.

FOR SALE OR SWAP—General Radios: 102-J, Decade resistance box; 219-F, Decade condenser; 246-L, variable air condenser; 386-B, portable capacity bridge. George P. Carr, 151 Parsells Ave., Rochester 9, N. Y.

WANTED—Any of Super-Pro series, SX28A, Drake 300 ohm low pass filter, test eqpt. such as VTVM, VOM, sig. gen., scope, etc. Send description and best price to M. Weinberg, 987 E. 178th St., New York 60, N. Y.

WANTED—Noise suppressor, 800 rpm motor, magnetic cutter and cartridge, 16" discs of music (AFRS or air checks). Useful parts to build up recording console. Harvey Hy White, 1105 Waller Ave., Winnipeg, Canada.

FOR SALE—D-37 Masco tape recorder; Want SX28 Hallicrafter. Clyde F. Wates, 218 Lincoln, Wayne, Neb.

FOR SALE OR TRADE—Rider Man. nos. 4, 6, 7, 10, 14 in good cond; G.T.C. Porta Power mod. H in orig. carton. Want oscilloscope or what have you. Joseph J. Ogrodnik, 175 MacArthur Blvd., West Warwick, R. I.

WANTED—Very old or unusual tubes, antique radios, and cuckoo clock. Have all sorts of parts to swap, or cash. S. Wickstron, 4908 N. Ashland, Chicago 40, Ill.

SELL OR TRADE—Mod. A-1 Wirecorder, rackmount panel, good cond., less amplifier; Mod. 156 Webster changer like new; 1942 Olds radio, fair cond. Want good tape recorder or 5" scope. J. A. Risse, 809 Conklin Rd., Binghamton, N.Y.

FOR SALE—Vision Research TV sweep gen. mod. TSW50, like new, comp. with probes and instr. book. Cost $68, will sell for $25. Hunter's Radio Center, 450 Main St., Catskill, N. Y.

SELL—Heath 0-2 (revised) scope in exc. cond. Also Triplett mod. 1200 dual AC-DC volt-ohmmeter and Supreme 537 navy surplus pocket size volt-ohmmeter—range to 600V. and 1 megohm, no AC ranges. Audio Service Laboratory, 407 North Alamo, San Antonio 5, Tex.

TRADE—16mm sound projector, Victor mod. 40, two cases, 12" speaker, like new, not a scratch; cost $525. Want comm. rec., comparable quality and cond. Prefer deal in New York area. H. H. Ragatz, 98 Beechwood Rd., Summit, N. J.

FOR SALE—503 Supreme Analyzer; 502 Supreme tube checker; 562 Supreme audolyzer; Meissner recorder; P.A. sets, all sizes. Want 8mm movie eqpt., 200 to 400 xmtr. or what have you. Mackey's Radio and Record Shop, 327 N. Spring St., Tupelo, Miss.

SELL OR SWAP—½ hp 60 cycle, 3450 rpm double shaft motor, used once; 2 factory rebuilt refrig. motors, fine for fan or light duty operation. Want test eqpt. George's Radio Service, 1908 Orange Ave., Santa Ana, Calif.

FOR SALE—Crown ant. rotator comp., A-D3; Chev. auto radio mod. 985426; Jackson sig. gen. mod. 640, 6 band, to 30 meg; 6 Supreme man., 29-38 abr., thru 1947; I.R.C. vol. control kit comp. First $100. James Hurst, 22 June St., Fall River, Mass.

FOR SALE—Electronic Designs mod. 100 VTVM like new, all leads $35. First money order gets it. Anton J. Cindel, 225 Naples Terr., New York 63, N. Y.

SWAP—Any kind of plans: house, garage, schematics drawn to suit in exchange for radio, test or photographic equipment. J. W. Bourke, 127 Great East Neck Rd., Babylon, N. Y.

WANTED—Field strength meter, pocket radios and miniature parts, portable radios and TV sets in working cond. Oliver A. Zucco, East Canaan, Conn.

TRADE—Chev. five band car radio broadcast, 16-19-25 and 31 meter bands. Want cameras, Graphic or B & J preferred, but would trade for others. Elvin L. Holley, Box 336, Vaughn, N. M.

FOR SALE OR SWAP—Assted. AC and DC ammeters and voltmeters 2-, 2½-, 3-inch panel type from $1; 2 solder irons $1 ea.; Burgess Vibro-Tool w/access. $5; Goredom flexible shaft drill w/burrs $7.50; asst. AC-DC 110-120V. relays, etc., from 50c ea.; mechanic's tools; alcohol torch $1. What have you? Julius Lerner, 1523 Unionport Rd., Bronx 62, N. Y.

TRADE—Hickok tube tester; 2V. and 1½V. tubes; spinning reel; Rem. rifle; DC and RF meters; 6SN7 and 5U4 tubes. Want no. 915 McMurdo silver grid dip adapter, adj. isolation trans. and late tubes. Frank Popma, Orange City, Iowa.

SELL OR TRADE—NRI course, 65 lessons; 35 servicing methods booklets and 5 on experiments; German tailor's scissors; English leather officers' belts and puttees. G. T. Mackenzie, 1948 Lewis Mt. Rd., Charlottesville, Va.

FOR SALE—Reference data for radio engineers, 3rd Ed., by Federal Telephone & Radio Corp., never used, $3.75. Charles Godleski, 1101 Mathews Ave., Utica, N.Y.

FOR SALE OR TRADE—Rider man. vols. 1-13. Will trade for tape recorder or camera. Also have tubes, meters, trans. P.A. systems, spkrs., mikes. Send 10c for list. S. Fountain, 1426 E. Pontiac St., Ft. Wayne, Ind.

FOR SALE—11 panel meters, 4" and 2½", like new $20, list on request. Wanted—small radio & TV service shop, located near Miami or St. Petersburg, Fla. Alex Atkinson, 18231 Winthrop, Detroit 35, Mich.

FOR SALE OR SWAP—TV FM sweep sig. gen. mod. 360, fact. calib. and tested $25 or trade for AM-FM tuner; Course in elec. appl. service and gen. elec., with elec. appl. tester, like new $15. Al Malakoff, 75-51 67 Dr., Middle Village, L. I., N. Y.

WANTED—Microwave test eqpt. for S, X, and K bands. Want freq. meters, power meters, sig. gens. and dummy loads. Will trade or swap for new or used ham gear. Herb Gordon, 12 Sunnyside, Wellesley 81, Mass.

FOR SALE—Rider Man., vol. 1-19 comp., exc. cond. Make offer. Want Hewlett-Packard audio oscillator. G. E. Howarth, 216 First Ave. E., Oskaloosa, Iowa.

FOR SALE—RCA Chanalyst 162C, $75. Botbyl Radio Shop, 1009 Sophia St., Muskegon, Mich.

SELL OR TRADE—Three 12B8. Want command receiver, or make cash offer. Arthur Ford, 137 Church St., Northport, L. I., N. Y.

FOR SALE—Rider Man. vol. 6-15, perf. cond., $60. W. B. Goodrich, 711 Prairie Ave., Houston, Tex.

SELL OR TRADE—Weston 770 tube checker; Motorola Golden Voice radio, comp. (vibrator bad); Phono preamplifier. Will trade for 7" TV or best offer; mod. 8073 RCP Servishop, exc. cond. and modernized $70. A. J. Schwarz, 7211 N. Damen Ave., Chicago 45, Ill.

WANTED—Montgomery Ward movie dial chassis 62-327; army handie talkies, any cond.; teletype page printer; 35 to 45 MC FM recs. or AM convertors; ½ or 1000W 110V 60 cycle gen. Standard Radio Shop, St. Pauls, N. C.

FOR SALE—St. Charles wire recorder basic unit, oscillator coil, hour spool wire, circuit diagram $25; back issues "Audio Engineering" May 1947 to date, $2.50 a year; Philco-Ford mod. FN car radio, good working order $20. James W. Meyer, RFD 4, Madison 5, Wis.

FOR SALE—Sparx 905 sig. tracer $15; RCA 155 scope $35; Superior 400 V.T. multimeter $25; R.C.P. 442 multimeter, 5000 o.p.v. $10; Weston output meter $8, all exc. cond. F. Maher, 2548 Fernwood Ave., Roslyn, Pa.

FOR SALE—Jensen bass reflex enclosure for 12" speaker $22; Hammond syncro phono-motor $5; Silvertone AM chassis, speaker, phono-mike-recorder input $20. Also have trade-list. Send yours to John Tanczyn, 1375 Agard Ave., Benton Harbor, Mich.

SWAP—.25 cal. automatic pistol for used Eico or Heath .05 scope in good cond. J. Bellber, 281 Rius Rivera, Hyde Park, Rio Piedras, P. R.

FOR SALE—Paying radio-TV sales-service business, serves 5,000, truck optional. Admiral, Philco, Motorola franchises. Small apt. in rear of large, well stocked shop on main street. Robert Weber, Main Street, Poultney, Vt.

FOR SALE—BC-375-E Army transmitter, complete with 3 tuning units and BC-375-E Dynamotor. Transmitter has some parts missing, $23; NRI course, all textbooks, $20. Bert Chahye, 5115 Elyria Ave., Lorain, Ohio.

WANTED—Hickok 288X sig. gen. at reas. price. J. F. Godek, 7001 Indiana Ave., Cleveland 5, Ohio.

SELL OR TRADE—Alliance Tennarotor mod. ATR, 60 cycles. Will take sig. gen. or sig. tracer or best cash offer. Ira Spaulding, RFD 4, Oswego, N. Y.

FOR SALE—Radio and TV shop. Owner unable to operate; good lease, stock and panel truck; must sell, very reasonable. Denver is getting ready for TV. S. D. Guido, 1952 Champa St., Denver, Colo.

COMPLETE TEST EQUIPMENT SERVICE—Ship us your defective test equipment. We repair and calibrate all types of electronic test equipment from small multimeters to laboratory oscilloscopes. Missouri Electronics Corp., 6058 Maple Ave., St. Louis 12, Mo.

WANTED—Good tape recorder, comm. receiver, 8mm films and telephoto lens, 35 mm Argus, 10" TV set, outboard motor, 1-5 hp. gasoline engines, and TV set parts. Will pay cash or trade test eqpt., etc. Wood Radio & TV, 2036 Chalfant St., Wilkinsburg, Pa.

WANTED—8mm movie projector, good quality, 35mm enlarger. Will swap amateur trans. eqpt.; trans. power supply components, 10" TV sets; 110V gen., gasoline driven; also radio and TV meters and test eqpt. S. B. Davidson, 962 Broadway, Bayonne, N. J.

FOR SALE—10" Fada 630, used 20 hrs., best offer takes it; Alliance 2 stage booster $20; Channel 12, 4 stacked Yagi antennas $15; Webster Chicago mod. 180, 5 hrs. of wire $80. Also need ham eqpt. Lawrence Roeshot, 77 Church St., Wilkes-Barre, Pa.

SELL OR TRADE—National NC-240D comm. rec., A-1 shape. Want Hickok 195B or RCA WO-56A scope, Hickok 610-A gen. John Czeszcicki, 2912 E. 123 St., Cleveland 20, Ohio.

WANTED—Late TV test eqpt. for use by TV students. Submit cond. and price of each item. Cappie's Radio & Television Laboratory, 188 Withers St., Brooklyn 11, N. Y.

FOR SALE—DeForest's Radio and TV Course, cost $300, books in exc. cond. Will sell for $20, post paid. Gust Foradas, 701 Rex Ave., N.E., Canton 2, O.

SALE OR TRADE—M-55B Shure Dynamic mike; Ghirardi's Modern Radio Service; Ghirardi's Radio Physics Course; Practical Mathematics (2 vol.). Want good enlarger, 35mm camera. Edward Ferreira, 8 Lawrence St., Taunton, Mass.

FOR SALE—University powermike, like new, comp. with battery $25. Niemann Radio Service, Winneconne, Wis.

FOR SALE—Gardiner Automatic Code Sender, type S, with ten practice tapes $16 like new; also 2 novice crystals, $1.25 ea. P. Rosenbaum, 39-21 65th Pl., Woodside 77, N. Y.

FOR SALE—Superior utility tester mod. 50; $10; Astatic JT-30 crystal mike with 10' shielded cable and desk stand $7.50; BC-603-FM rec., 10 good tubes, 12V. dynamotor $15; Radio City sig. gen mod. 704, with instr. $25 plus post. Preston L. Williams, 415 Liberty St., S. Norfolk, Va.

FOR SALE—Eico 425 oscilloscope, 315 del. sig. gen., 950 capacitor bridge, 221 V.T.-V.M., all wired and tested, with leads and manuals. All for $90 or separate at 30% off kit prices. Bell 2122A Hi-fi amp. $30. Jack Strom, 363 The Arcade, Cleveland 14, Ohio.

FOR SALE—Jackson 652 audio oscillator, 20-20,000 CPS, like new, $65. Hickok 203 VTVM, exc. cond., $50. Both for $110.00 prepaid. W. A. McCall, 3927 Fourth St., Wayne, Mich.

WANTED—Pilot tuner in good working cond. W. J. Dichtel, Riggs Rd., Rt. 1, Hyattsville, Md.

WANTED—AM-FM table model radio. State price, make, model and cond. in first letter. M. A. Porter, 1709 N. Larrabee St., Chicago 14, Ill.

WANTED—Miniature test eqpt., like Oak Ridge. State price, cond., etc. in first letter. John P. Shulnes, Jr., 923 Timberland Ave., Pittsburgh 26, Pa.

FOR SALE—CREI Radio Eng. Course and other radio books. Samuel Goldberg, 91 Ten Eyck Walk, Brooklyn 6, N. Y.

SWAP—L.M. 7 freq. meter, 125 KC, two 20MC with orig. calibration chart and instr. book, orig. crystal for AC operation. Want 8mm camera and projector with f2.5 lens, capacity bridge or Hickok traceometer. Morris Tischler, 4600 Norfolk Ave., Baltimore 16, Md.

FOR SALE—NRI Tele. & Radio Course, never used; cost $125, will ship express COD $59 with privilege of examination. H. Kerlin, 1426 Shore Rd., Middle River 20, Md.

FOR SALE—Rotary converter, 115V. DC to 115V. AC, 250 VA, built in filter $25 FOB. Gordon F. Perry, 874 Elm Ave., River Edge, N. J.

SELL OR SWAP—Triplett 3413 checker, exc. cond., for ART-13 or 3-4 MC ARC-5 with MD-7 modulator, power supply and dynamotor. Have tubes and other gear. Sell or swap. C. H. Liles, P.O. box 133, Naval Base, S. C.

WANTED—FM tuner or rec. Need not be working if all there and cheap for cash. A. S. Daniels, 2633 Pemberton, Houston 5, Tex.

FOR SALE—Short wave converter. For use with any superhet rec. Tune from 6 to 16 megacycles; exc. coverage of 20 meter band. Uses 6 x 4 rectifier and 6BE6 converter, $20. William Hintz, Rt. 4, Hutchinson, Minn.

SELL OR TRADE—Sig. gen., sig. tracer, tube tester, condenser tester, all Heath kits in perf. cond. Want oscilloscope, tape recorder or amp., or make offer. Have back issues of Radio Mag. William Bradford, 3706 Guthrie St., East Chicago, Ind.

FOR SALE—Mod. 162-C Rider's Chanalyst, used 2 hrs., $85. Robert Lagerstrom, 4521 2nd Ave., Minneapolis 9, Minn.

FOR SALE—RCP mod. 802N tube and set tester in very good cond. $40 takes it. Alvin E. Schmidt, 723 N. Emily St., Ludington, Mich.

FOR SALE—Rider Man. vol. 1-14 comp. with all index $60; Sam's folders 1-60 in new binders, 6 man. in all $60. Will take typewriter, cornet or trumpet in trade. Prentice Radio Service, Newark Valley, N. Y.

WANTED—Green Flyer motor and turntable 33⅓ and 78 rpm. Type with one lever to change speeds and one to vary speed of either 33⅓ or 78. Quote lowest price. George W. Fischer, 561 Sunnyside Ave., Elmhurst, Ill.

SWAP—Cornell Dubilier capacitor analyzer mod. BF50; S. F. Hepp, 83 Brendel Ave., Hamburg, N. Y.

WANTED—1951 Studebaker auto radio. G. T. Karalow, 318 W. Fearing St., Elizabeth City, N. C.

FOR SALE—National NC-183 rec., Simpson mod. 315 test oscillator, LM14 freq. meter, Hickok 532P tube tester, Dumont 274 5" scope, Jackson 630 audio oscillator, T120 RCA 12" table mod. TV rec. Cash only, best offer for each or all. Daniel Lewis Wachner, 725 S. Lorraine Blvd., Los Angeles 5, Calif.

TRADE—Two BC-611 tranceivers with all tubes, crystals and coils, less batteries. Want phone and CW trans. 160 thru 2 meter band or thru 10 meter band, with front panel meter and built in AC power supply and op. inst., not less than 150W. Rupert Freeman, 2108 33rd Ave., Meridian, Miss.

FOR SALE—Precision sig. gen. E-200, $30; Rider Man. 9-12, TV Man. no. 1, $4.30 ea., all in exc. cond; inventory of repair parts worth over $200, only $20, shipped without charge. Erwin Steinfeld, 1892 Arthur Ave., New York 57, N. Y.

FOR SALE—National Radio Inst. emission tube tester mod. 68 in good cond.; radio home study course in fair cond. and some obsolete tubes. Will sell cheap. Wayne B. Jamison, 1802 Lurting Ave., New York 61, N. Y.

SELL OR TRADE—4 x 5 press camera, enlarger, printer, trays, lights; tripods, comp. studio eqpt.; 2 A.T.D. transmitters 500 kc 9,000 kc, comp. with power sup., 125W A.R.T. transmitter 7-9 mc 30W, like new. Want 75-100W Xal controlled 2.4.5 mc transmitter phone. Jim Mosley, 1549-A Jackson St., Charleston, W. Va.

FOR SALE—Supreme Tube-condenser and set checker mod. TV11, practically new. Cost $71.50; make an offer. Leon De Sanzo, 14 Ashton St., Hartford, Conn.

WANTED—A used RCA 44BX mike, an RCA 77D or C mike, and an RCA 88A moving coil dynamic mike. John D. Harmer, 192 N. Powell Ave., Columbus 4, Ohio.

FOR SALE—Radio & Appliance Sales & Service business, est. 22 years, town of 7,000; best location, best agencies and low overhead. Purchase of building optional. Illness reason for selling. Nick's Electric Store, 76 Broadway, Saranac Lake, N. Y.

TRADE—7" Hallicrafter TV, Zenith Transoceanic, '49 Mercury radio, radios and TV for 35mm, Speed Graphic, Polaroid land cameras or movie eqpt. F. W. Crawford, 271 Lowell St., Arlington, Mass.

FOR SALE—1-84 Sam's Photofacts $85; 9, 10 vol. Riden Man $16; record changers and recorders by Rider $3.50, all like new. W. Ruth, 626 Eastern Blvd., Baltimore 21, Md.

SWAP—Perfex 55 camera 35mm f2.8 or Premo camera 4 x 5 with acc., for either wire or tape recorder. Also want Zenith 50-52 chassis and speaker. Larson's Radio Service, Madison, Minn.

TRADE—12½" Admiral consolette TV, new picture tube, perf. cond., for camera, Linhof Technika, Hasselblad Reflex, Graflex, Ikonta, Contax or Busch Press. Harry J. Sigmar, 3556 W. 6th St., Chicago 23, Ill.

FOR SALE—Precision E-200 sig. gen., never used; A.C.A. Twin-Trax tape recorder; Shure Monoplex crystal mike with floor stand, both perf.; any reas. offer. J. E. Moreland, 111-47 113th St., Ozone Park 16, L. I., N. Y.

FOR SALE—Building, apt. in back, radio repair shop in front, new garage, lot 50 x 150 ft., inventory app. $4,500; best location in town of 22,000. Average gross, one man, past 5 years, $12,000 a year. $12,000 takes it all. Barrett's Radio Headquarters, 521 W. Front St., Traverse City, Mich.

TRADE OR SELL—National TV booster, unopened. Interested in scope, test eqpt. or related items. Will answer all inquiries. W. Baer, 247 E. Frederick St., Lancaster, Pa.

FOR SALE—Tape recorders, Pentron, Revere, Wilcox-Gay, Eicor and Bell; 8 and 35mm cameras and projectors, used 8mm film. Need VTVM, VOM, cond. checker or what have you? K & S Electric, 108 N. Main St., Mansfield, Ohio.

FOR SALE—Radar xmtr T-85/APT-5, 300-1500 mc. continuous; includes uhf oscillator and 931A tubes, blower, 60 cps transformers, Lecher wires and indicator. Also R89/ARN-5A; BC-733D; RT-3/ARN-1; CW-3 rec. and SCR-522 and extra rec. C. K. Chrismon, Farmville, Va.

WANTED—Field strength meter, for TV use, must be in good cond. State price. Have Philco AM gen., Solar cond. tester, Philco tubetester, mod. 7050. Savoie Radio, Naples, Ill.

FOR SALE—Feiler mod. TS-9 vacuum tube multimeter $20; Feiler mod. TS-3A electronic stethoscope $25, both like new. Jack's Radio Service, Iron City, Tenn.

WANTED—Top prices paid: navy selsyns 1DG, 1F, 1CT, 5CT, 5DG, 5G, 6G and BC-348, BC-221, AN/ART-13, AN/ARC-1, AN/ARC-3, RTA-1B. B. Bernbaum, Lectronic Research Laboratories, 719 Arch St., Philadelphia, Pa.

SALE OR TRADE—For deer rifle, Rider Man. 12-20; vol. 3, 12, 14 slightly used. C. McDonald, 1278 Adams St., Denver, Colo.

FOR TRADE—Gernsback Man. 30-34; Rider 36-38, in good cond. Want radio eqpt., Flyer phono motor, AC and DC 110V, 33⅓ and 78 rpm less turntable. George C. Ellwood, 518 Holmes Ave., Ontario, Calif.

FOR SALE—Traded in battery and electric table model radios. Some play, some don't; highest cash offer. John W. White, 403 Sterling Ave., Winona, Miss.

FOR SALE OR TRADE—Time clock, mimeograph, asst. test eqpt., parts, many other items; free list. Want machine tools, Slim's Radio & Electronics, 1147 Sunkist Ave., Waukesha, Wisc.

FOR SALE—Hickok 277X sig. gen. $130; 195B 5" scope $100; Precision EV-10 MCP VTVM-Meg-meter, hardwood walnut case with RF-10 probe $85; parts, tubes, resistors, etc. Ask for list. Leslie Balint, Durkee Lane, E. Patchogue, N. Y.

FOR SALE—Eico VTVM, mod. 221 $15. Hickok VOM, mod. 435 $20; Eletromuse 4 tube amp. with carrying case comp. $10. Weston analyzer $5 FOB. J. Willis, 61 Hayes Lane, Wilkes Barre, Pa.

FOR SALE—Supreme tube, battery and set checker mod. 599 $25; Supreme sig. gen. mod. 575 $30; Superior sig. tracer mod. CA-11 $10; Sprague Tel-Ohmike mod. To-2 $35. Frank J. Fronczek, 133 Milbrook Dr., E. Hartford, Conn.

FOR SALE—Heathkit TS-2 sweep gen., assembled, never used, needs calibration, comp. with three spare 2C22 tubes $25; Stancor 60W amp. P.A. system or modulator for 120W, exc. cond. $55 Andrew Smith, 66 Maple Ave., New Rochelle, N. Y.

WANTED—Front case metal cover for Crosley under dash mod. A-157 auto radio. Thos. J. Ambrose, 211 Farren Ave., New Haven 13, Conn.

FOR SALE—Scott Philharmonic 30 tube chrome chassis 6 band rec., 40W class A, expander, scratch suppressor, 15" speaker $155; Knight phono, osc. encased, with 35L6, 35Z6 $6. E. D. Duckett, 3813 N. Bell, Chicago, Ill.

FOR SALE—Heath TV Sweep gen., used only few times $30; two FM tuners comp. with power supply, matched xtal detector, tuned r-f stage; tubes inc. $20 ea. El Mueller, 524 W. Park, Aurora, Ill.

WANTED—7 tube superhet. Silvertone radio chassis no. 110.473-1 for use in wire recorder comb. console no. 8103 or 8104. Would buy comp. console if priced right. George Kregolis, R.R. 1, Effingham, Ill.

WANTED—40 meter band spread coils for National FB-7 receiver. L. F. Wanja, 804 Shady Lane, Dallas, Tex.

FOR SALE—RCA Rider Chanalyst $75; Eico oscilloscope 425K 5" $50; Precision tube tester, M-612 $55; Precision E-200-C gen. $40; Eico 145-K sig. tracer $20; Triplett mod. 630 voltohmeter $25; N.C. 46 short wave rec. $40. All instruments less than 2 months old. James B. Bradley, Rt. 2, Box 158, Gate City, Md.

FOR SALE—Hallicrafter Sky Rider Marine S22R comm. rec., cost $76; will sell for $25. H. A. Pierce, 138-28 77th Ave., Flushing 67, N. Y.

FOR SALE—Rider 1-5 abridged through 16, in good cond. with indexes, and Rider TV 1-3 in satisfactory cond. $150. A. Dolgos, Rt. 19 Orange St., Nixon, N. J.

FOR SALE—Zenith 7G605 Trans-Oceanic portable; National NC-44; McMurdo Silver Masterpiece 1V-A; automatic record changer; Rider Manuals, other items. Send for list. Want Super-Pro any cond., condenser analyzer, TV or what? Glenn Watt, 415 W. First, Chanute, Kans.

FOR SALE OR TRADE—BC 342 comm. rec., several commercial table radios, need little work. Want tube tester, oscilloscope, sig. gen., converter for mobile rec. or what have you? Harold Kaplan, 204-13 Murdock Av., St. Albans 12, N. Y.

SWAP—RCA P.A. record changer, 78 rpm; 7" TV, needs rebuilding; Sparton 1½V farm radio chassis. Entire lot, plus $20 for BC-221 in good cond. George H. Hague, 6 Carver St., Fall River, Mass.

FOR SALE—Brooks ST 14 FM-AM tuner, like new. Best offer takes it, or what have you to trade. Chester S. Collier, 190 Yoder St., South Bend 14, Ind.

WANT—Tube checker, cartoned 12LP4, Mon-key, 7" TV. Have mimeograph machine, power supplies, Mark 11 comp., meters, grinding head, many other items. List for stamp. G. Samkofsky, 527 Bedford Ave., Brooklyn, N. Y.

FOR SALE—New two-wheel mobile sound trailer. Provides communication over ½ mile or more, entirely portable; includes power plant, mike, amp., loudspeaker and air heads. Orig. $5,000, now $495. W. A. Jones, 12 E. Lombard St., Baltimore 2, Md.

WANTED—Sam's Photo Facts 3, 5, 6, 7, 9-16, 18-22, 26-28, and 30. Must be reasonable and in usable cond. State price. Edwin A. Gruneich, Buffalo, N. Dak.

WANTED—Information on how navy aircraft rec., mod. ARA, type CCT-46104, 1.5-3 mcs. may be converted to 115 vac and how operation may be improved on orig. freq. Also want June, '48 R&TN magazine. R. L. Evans, Box 156, Ambler, Pa.

WANTED—Radio magazines, E-200-C gen.; voltohmyst, parts, Sam's. Have 274N with racks and plugs, T.U. from BC-375, dismantled BC-375, radio books, Eico 221 VTVM, sig. gen., etc. or cash. W. Troppman, 525 Methow St., Wenatchee, Wash.

SERVICE—Your present Volt-ohm-Milliammeter can be converted to a high quality Vacuum Tube Volt meter. Unit only $10.85. Comp. literature on request. Write Ames and Day, Inc., Hotel Touraine, Boston, Mass.

FOR SALE—Hammarlund HQ-129X, like new $120; National SW54 $33; Bud code practice osc. $8; National NC108 FM rec., std. rack panel with level meter used as monitor in BC station, $50. J. R. Halchak, 10 True St., Everett, Mass.

TRADE—At no cost, 16mm movie sound films. All you pay is postage both ways. For sale—Holmes projector with 12" speaker. Harold Wurm, 1015 W. Barnes Ave., Appleton, Wis.

WANTED—FM fixed tuned crystal police rec. 6 V.D.C., 39.9 megacycles or near that. RCA Motorola. State price and cond. Bill Ryan, 15 Lincoln Ave., Manoa, Pa.

FOR SALE—Handbook Maint. Instr. Radio Compasses MN-26A-CA-C-M-W-X-Y $2.50; variable wave trap 80 to 300 Mc. Navy type F-19/UPR $2.50; sockets for 832A as used in T-23/ARC-5, 2 for $5; spare parts for T-23/ARC-5 taken from new eqpt. E. J. Mack, 82 Broadway, Bayonne, N. J.

SELL OR TRADE—Samson Safeflex 10″ fan, 12″ same, 2 8″ White Cross fans, all like new; retail $67.90, make offer. Sadler Radio, Clayton, N. M.

FOR SALE—Nationally known TV sets in cartons ready for shipment. For information write L. O. Terry, 15 Riggs Rd., N.E., Washington 11, D.C.

FOR SALE—Set of Rider Manuals and indexes, new cond., comp. through XV; I-V Abridged; $100.00. Fred McWilliams, 4524 Forbs St., Pittsburgh 13, Pa.

FOR SALE—Feiler Electroscope appliance tester used 3 times $18.50 FOB. Want TV test eqpt. Ellison Radio Service, Centertown, Ky.

FOR SALE OR TRADE—Test eqpt. and parts for radio and TV repair shop $268 cash or trade for ham gear or what have you. Send for list. Oliver Pinkerton, 376 E. Ohio Ave., Sebring, Ohio.

FOR SALE—915 Precision tube tester $50; 504B Supreme tube tester $50; 305 Hickok scope $40; 4922 Hickok VOM $20; 576 Supreme gen. $25; 050 Philco tube tester $10; 441A Jackson gen. $15. Edward Rowland, Box 8002, Raleigh, N. C.

FOR SALE—Simpson mod. 315 sig. gen., used less than 10 hours $50; 12″ TV magnifier $15; Hallicrafters "Sky Ranger" S-39, good cond. $40; C.I.R.E. and De-Forest radio and TV courses. D. G. Larking, 508 Ohio St., Joliet, Ill.

FOR SALE—WE 9A reproducer cartridge with arm $24. J. Kozlowski, 327 Montgomery St., Jersey City, N. J.

WANTED—Tube tester, oscillograph, test oscillator with signal-injection probe like 167-B RCA, VTVM like Electronic, or separate VTVM and sig. tracer, an intermod. analyzer like Heath 1-M-1, SQ-1 audio freq. meter. Write for list to swap. Fenton Canfield, 86 Hampden Rd., Rochester 10, N. Y.

FOR SALE—Rider Man. 1-20 incl. $125; Rider Chanalyst $50; Precision 9″ panel multimeter $35; Clough-Brengle 3″ scope $35; Triplett volt-wattmeter, leather case $20; Supreme sig. gen. $35. John C. Hurley, Ponca, Neb.

WANTED—Electrolytic condensers, 45X286, 45X285, for Montgomery Ward, Airline mod. 14WG-673B, AC-DC batt., 117V. Also L-44X21 and 44X36 Electrolytic for M.W. Airline, 13 tube movie dial console. State cond. and price. Loren Parker Rt. 5, Grant Rd., Wenatchee, Wash.

FOR SALE—Eico sweep gen. mod. 360, like new $20; Eico oscilloscope mod. 400, with crystal probe $20, needs some adjustment, like new; RCA power pack, adj. voltages, like new $7. John H. McHocko, 205 S. 11th St., Easton, Pa.

WANTED—RME rec. mod. 69, 70, or 99. Must be in good cond. and not tampered with. Will pay cash if price is right. Bud Woida, 2001 Washington St., Manitowoc, Wis.

FOR SALE OR TRADE—6V Delco-Remy 20A gen., like new; 5 station master intercomm. set. Need tube checker and battery eliminator. C. W. Chastain, 228 Timber Lane, Memphis, Tenn.

FOR SALE OR TRADE—Zenith 6M-90 auto radio. Will trade for Pilotuner or sell for $15 FOB. W. C. Farley, 1630 E. Livingston Ave., Columbus 5, Ohio.

WANTED—Cabinet racks 76″ x 22″ x 18″; similar to Par-Metal G-2218. Slate grey ripple preferred. Vincent S. Barker, 1326 W. Stephenson St., Freeport, Ill.

FOR SALE OR TRADE—Comp. line of photographic eqpt., incl. 4 x 5 press outfit, view camera, 35mm camera and accessories. Also comp. line of darkroom eqpt. Will sell or trade for test eqpt. Selwyn Wynstock, 1837 S. Millard Ave., Chicago 23, Ill.

WANTED—Complete 75 meter mobile phone transmitter, rec., power supplies, any make at all, mike, antenna with mount. To be shipped by express to state of Washington. State price. Arthur E. Lowe, 520 Island Highway, Victoria, B. C., Canada.

TRADE—Servel Electrolux, kerosene operated, 8 ft. refrig., new unit, perf. working, fine for summer camp. Want TV. E. M. Brown, 2929 Washington Ave., Terre Haute, Ind.

SWAP—2 American dynamic mikes; 75 meter crystal controlled Handie Talkie; 250 th tube; .22 Winchester spec. and 45-90 1873 Springfield with ammo; air compressor motor and compressor size of 1/4 hp motor. Want comm. rec. VFO or sig. shifter. Sanfords' Electronics, Hillsboro, Wis.

SALE OR TRADE—Clough-Brengle OMA FM sig. gen. and CRA oscillograph comp. with conn. cables, instr. $110; Weston 772 analyzer with case and test leads $35; National NC-44 and spkr $30. T. Glenn Watt, 415 W. First, Chanute, Kans.

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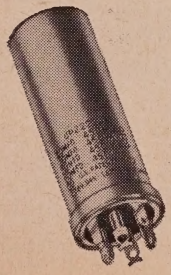

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Printed in U.S.A.